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Sequence Listing was accepted.

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217-9197 (toll free).

Reviewer: Anne Corrigan

Timestamp: [year=2007; month=11; day=30; hr=19; min=31; sec=47; ms=355;
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Application No: 10539891 Version No: 2.0

Input Set:

Output Set:

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Finished: 2007-11-09 18:29:24.200
Elapsed: 0 hr(s) 0 min(s) 1 sec(s) 394 ms
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Total Errors: 0
No. of SeqIDs Defined: 16
Actual SeqID Count: 16

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SEQUENCE LISTING

<110> Napier, Johnathan A.
 Sayanova, Olga
 Lazarus, Colin M.
 Qi, Baoxiu
 Heinz, Ernst
 Zank, Thorsten
 Zahringer, Ulrich

<120> Novel method for the production of polyunsaturated fatty acids

<130> 13478-00001-US

<140> 10539891

<141> 2005-06-17

<150> PCT/EP2003/014054

<151> 2003-12-11

<150> GB 0229578.0

<151> 2002-12-19

<150> GB 0316989.3

<151> 2003-07-21

<160> 16

<170> PatentIn version 3.4

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| Asp | Phe | Arg | Lys | Leu | Arg | Glu | Glu | Leu | Ile | Ala | Thr | Gly | Met | Phe | Asp | 85 | 90 | 95 | |
| Ala | Ser | Pro | Leu | Trp | Tyr | Ser | Tyr | Lys | Ile | Ser | Thr | Thr | Leu | Gly | Leu | 100 | 105 | 110 | |
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| His | Asp | Ile | Cys | His | His | Gln | Thr | Phe | Lys | Asn | Arg | Asn | Trp | Asn | Asn | 145 | 150 | 155 | 160 |
| Leu | Val | Gly | Leu | Val | Phe | Gly | Asn | Gly | Leu | Gln | Gly | Phe | Ser | Val | Thr | 165 | 170 | 175 | |
| Cys | Trp | Lys | Asp | Arg | His | Asn | Ala | His | His | Ser | Ala | Thr | Asn | Val | Gln | 180 | 185 | 190 | |
| Gly | His | Asp | Pro | Asp | Ile | Asp | Asn | Leu | Pro | Leu | Leu | Ala | Trp | Ser | Glu | 195 | 200 | 205 | |
| Asp | Asp | Val | Thr | Arg | Ala | Ser | Pro | Ile | Ser | Arg | Lys | Leu | Ile | Gln | Phe | 210 | 215 | 220 | |
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| Cys | Phe | Gln | Ser | Val | Leu | Thr | Val | Arg | Ser | Leu | Lys | Asp | Arg | Asp | Asn | 245 | 250 | 255 | |
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| His | Trp | Thr | Leu | Lys | Ala | Leu | Phe | His | Leu | Phe | Phe | Met | Pro | Ser | Ile | 275 | 280 | 285 | |
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| Gly | Ile | Ala | Ile | Val | Val | Phe | Met | Asn | His | Tyr | Pro | Leu | Glu | Lys | Ile | 305 | 310 | 315 | 320 |
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| Glu | Thr | Met | Asn | Ile | Arg | Arg | Gly | Ile | Ile | Thr | Asp | Trp | Phe | Phe | Gly | 340 | 345 | 350 | |
| Gly | Leu | Asn | Tyr | Gln | Ile | Glu | His | His | Leu | Trp | Pro | Thr | Leu | Pro | Arg | 355 | 360 | 365 | |
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His Asn Leu Pro Tyr Arg Asn Pro Leu Pro His Glu Gly Leu Val Ile
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